APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE MIDDLE WABASH-LITTLE VERMILLION WATERSHED

Station PC-21

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std Dev.	Standard Error	Skewness	Std Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	18	217.0556	197.7312	236.3799	223.5	3907	131	274	205	249	143	44	1510.056	38.85943	9.159256	-0.72385	0.536278	-0.00221	1.037795
Ammonia (mg/l as N)	19	0.060526	0.043337	0.077716	0.05	1.15	0.05	0.2	0.05	0.05	0.15	0	0.001272	0.035664	0.008182	3.770813	0.523767	14.70749	1.01427
BOD (mg/l)	15	1.146667	0.747402	1.545931	1.1	17.2	0.5	3	0.5	1.4	2.5	0.9	0.51981	0.720978	0.186156	1.248376	0.580119	1.74927	1.120897
COD (mg/l)	19	14.37895	9.476175	19.28172	12.2	273.2	2.5	51.1	8	16	48.6	8	103.4706	10.17205	2.333629	2.759324	0.523767	9.861679	1.01427
Cyanide (mg/l)	19	0.005211	0.004953	0.005469	0.005	0.099	0.005	0.007	0.005	0.005	0.002	0	2.9E-07	0.000535	0.000123	2.657501	0.523767	6.883235	1.01427
Nitrate (mg/l as N)	19	6.007895	3.860939	8.15485	5.9	114.15	0.05	13	1.9	10	12.95	8.1	19.84174	4.454407	1.021911	0.169103	0.523767	-1.38659	1.01427
Total Phosphorus (mg/l as P)	19	0.085	0.038173	0.131827	0.06	1.615	0.015	0.45	0.03	0.11	0.435	0.08	0.009439	0.097154	0.022289	3.207967	0.523767	11.99964	1.01427
Total Solids (mg/l)	18	446.7222	407.983	485.4615	438	8041	326	712	409	456	386	47	6068.565	77.901	18.36144	2.348358	0.536278	8.263704	1.037795
Suspended Solids (mg/l)	18	42.83333	-2.69991	88.36657	19.5	771	2	404	10	28	402	18	8383.794	91.56306	21.58162	4.028392	0.536278	16.69508	1.037795
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	17	1728.529	-592.281	4049.34	160	29385	5	17000	20	530	16995	510	2E+07	4513.856	1094.771	3.034303	0.549747	9.015471	1.063198
TOC (mg/l)	1	8.4				8.4	8.4	8.4											
Hardness (mg/l)	19	291.4737	262.6658	320.2816	316	5538	162	366	237	350	204	113	3572.374	59.76934	13.71203	-0.66817	0.523767	-0.58684	1.01427
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	16	10.265	8.947288	11.58271	9.75	164.24	6.62	15.06	8.315	11.98	8.44	3.665	6.1152	2.472893	0.618223	0.64804	0.564308	-0.52968	1.090774
pH	16	8.026875	7.850426	8.203324	8.02	128.43	7.3	8.59	7.875	8.295	1.29	0.42	0.10965	0.331134	0.082783	-0.58894	0.564308	0.570443	1.090774
Copper (ug/l)	3	4.1	-4.93557	13.13557	2	12.3	2	8.3			6.3		13.23	3.637307	2.1	1.732051	1.224745		
Iron (ug/l)	3	346.6667	95.37145	597.9619	400	1040	230	410			180		10233.33	101.1599	58.40472	-1.71303	1.224745		
Zinc (ug/l)	3	3.766667	-2.75902	10.29236	2.25	11.3	2.25	6.8			4.55		[illegible]	2.626944	1.516667	1.732051	1.224745		

Station V-8

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std Dev.	Standard Error	Skewness	Std Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	78	203.2179	196.417	210.0189	206	15851	115	253	185	226	138	41	909.861	30.1639	3.415389	-0.68914	0.272211	0.042655	0.538176
Ammonia (mg/l as N)	78	0.077564	0.061762	0.093366	0.05	6.05	0.05	0.4	0.05	0.05	0.35	0	0.004912	0.070087	0.007936	2.882885	0.272211	8.117455	0.538176
BOD (mg/l)	37	1.905405	1.488972	2.321839	1.6	70.5	0.5	5.9	1.2	2.3	5.4	1.1	1.55997	1.248988	0.205332	1.568813	0.387589	2.775024	0.758719
COD (mg/l)	78	16.52564	14.38616	18.66512	13.7	1289	2.5	54.4	11	20	51.9	9	90.04453	9.48918	1.074438	1.806347	0.272211	4.221664	0.538176
Cyanide (mg/l)	78	0.005269	0.005078	0.00546	0.005	0.411	0.005	0.01	0.005	0.005	0.005	0	7.2E-07	0.000848	9.6E-05	3.91023	0.272211	16.77105	0.538176
Nitrate (mg/l as N)	78	6.519231	5.75289	7.285572	6.1	508.5	0.2	14	3.6	8.9	13.8	5.3	11.55274	3.398933	0.384853	0.373527	0.272211	-0.79546	0.538176
Total Phosphorus (mg/l as P)	78	0.317436	0.265807	0.369064	0.235	24.76	0.04	1.26	0.17	0.44	1.22	0.27	0.052435	0.228987	0.025928	1.624925	0.272211	3.183568	0.538176
Total Solids (mg/l)	78	495.2051	473.9619	516.4484	483	38626	340	987	446	515	647	69	8877.36	94.21974	10.66829	2.424651	0.272211	9.627989	0.538176
Suspended Solids (mg/l)	78	59.83333	41.4868	78.17986	31	4667	2	520	16	76	518	60	6621.387	81.37191	9.213554	3.303125	0.272211	14.15499	0.538176
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	75	483.6	227.8972	739.3028	160	36270	5	8000	30	480	7995	450	1235141	1111.369	128.3298	5.054815	0.2774	29.78768	0.548211
TOC (mg/l)	0																		
Hardness (mg/l)	78	291.8077	281.0337	302.5817	299	22761	118	372	260	330	254	70	2283.456	47.78552	5.410645	-1.01939	0.272211	1.464943	0.538176
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.39794	9.88465	10.91122	10.2	655.07	6.95	19.2	8.8	11.6	12.25	2.8	4.153813	2.038091	0.256775	1.297167	0.301589	4.363518	0.594841
pH	64	8.034062	7.940155	8.12797	8.115	514.18	7.06	8.72	7.81	8.3	1.66	0.49	0.141332	0.375942	0.046993	-0.65459	0.299327	-0.14722	0.590491
Copper (ug/l)	12	3.5	2.36665	4.63335	3	42	2	7	2	4.5	5	2.5	3.181818	1.783765	0.514929	0.807281	0.637302	-0.53518	1.232246
Iron (ug/l)	2	310	-2231.24	2851.241	310	620	110	510			400		80000	282.8427	200				
Zinc (ug/l)	12	16.25	10.32599	22.17401	10	195	5	30	10	25	25	15	86.93182	9.323723	2.691527	0.675065	0.637302	-1.26423	1.232246

Station WB-240

	Valid N	Mean	Confid -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Quartile Range	Range	Variance	Std Dev	Standard Error	Skewness	Std Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	79	200.8481	194.4461	207.2501	202	15867	108	286	184	218	34	178	816.9253	28.58191	3.215716	-0.21429	0.270545	1.20653	0.534952
Ammonia (mg/l as N)	78	0.090385	0.07194	0.108829	0.05	7.05	0.05	0.5	0.05	0.1	0.05	0.45	0.006692	0.081805	0.009263	2.710059	0.272211	8.487049	0.538176
BOD (mg/l)	38	3.231579	2.630382	3.832776	2.85	122.8	0.5	8	1.7	4.5	2.8	7.5	3.345462	1.82906	0.296713	0.812919	0.382818	-0.0795	0.7497
COD (mg/l)	78	23.29487	21.13718	25.45256	21	1817	8.4	65	17	26.3	9.3	56.6	91.58387	9.569946	1.083583	2.059793	0.272211	5.627651	0.538176
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	78	3.923718	3.416401	4.431035	4	306.05	0.05	9.7	1.9	5.5	3.6	9.65	5.062904	2.25009	0.254773	0.144022	0.272211	-0.65583	0.538176
Total Phosphorus (mg/l as P)	78	0.220897	0.183855	0.25794	0.19	17.23	0.04	1.36	0.15	0.24	0.09	1.32	0.026993	0.164295	0.018603	5.024756	0.272211	31.56948	0.538176
Total Solids (mg/l)	79	468.5949	442.1925	494.9974	448	37019	315	1370	425	477	52	1055	13894.4	117.8745	13.26192	6.036537	0.270545	44.73368	0.534952
Suspended Solids (mg/l)	79	74.29114	53.78391	94.79837	57	5869	4	724	37	82	45	720	8382.337	91.5551	10.30075	5.395996	0.270545	34.8965	0.534952
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	76	578.0921	121.0495	1035.135	105	43935	5	15000	15	400	385	14995	4000403	2000.101	229.4273	6.161387	0.275637	40.48291	0.544804
E. coli (CFU/100ml)	0																		
TOC (mg/l)	79	277.9873	268.9408	287.0339	278	21961	168	370	250	308	58	202	1631.243	40.38855	4.544079	-0.24121	0.270545	0.12293	0.534952
Hardness (mg/l)	0																		
Chloride (mg/l)	63	10.73889	10.30066	11.17712	10.41	676.55	7.25	16.5	9.58	12.02	2.44	9.25	3.02782	1.740063	0.219227	0.71662	0.301589	0.84746	0.594841
Dissolved Oxygen (mg/l)	64	8.125938	8.039094	8.212781	8.145	520.06	7.11	8.67	7.925	8.38	0.455	1.56	0.120869	0.347662	0.043458	-0.64054	0.299327	0.283514	0.590491
pH																			
Copper (ug/l)	0																		
Iron (ug/l)	0																		
Zinc (ug/l)	0																		

Station WB-230

	Valid N	Mean	Confid -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Quartile Range	Range	Variance	Std Dev	Standard Error	Skewness	Std Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	71	198.8732	192.6716	205.0749	201	14120	112	265	182	214	32	153	686.4837	26.20083	3.109467	-0.54564	0.284805	1.053838	0.562511
Ammonia (mg/l as N)	71	0.107746	0.084534	0.130959	0.05	7.65	0.05	0.5	0.05	0.1	0.05	0.45	0.009618	0.09807	0.011639	1.96286	0.284805	3.63519	0.562511
BOD (mg/l)	35	3.165714	2.569048	3.76238	2.7	110.8	0.5	8	1.9	4.2	2.3	7.5	3.017025	1.736959	0.2936	0.909203	0.397694	0.570836	0.777794
COD (mg/l)	71	22.41972	20.93459	23.90485	22	1591.8	8	44	18	26.8	8.8	36	39.36846	6.274429	0.744638	0.725395	0.284805	1.526171	0.562511
Cyanide (mg/l)	71	0.005338	0.005039	0.005637	0.005	0.379	0.005	0.013	0.005	0.005	0.008	0.008	1.6E-06	0.001264	0.00015	4.523075	0.284805	22.19582	0.562511
Nitrate (mg/l as N)	71	3.870423	3.296574	4.444271	3.8	274.8	0.05	9.8	1.8	5.5	3.7	9.75	5.877756	2.424408	0.287724	0.333594	0.284805	-0.63513	0.562511
Total Phosphorus (mg/l as P)	71	0.197746	0.179455	0.216038	0.2	14.04	0.03	0.46	0.14	0.24	0.1	0.43	0.005972	0.077279	0.009171	0.608208	0.284805	1.514	0.562511
Total Solids (mg/l)	71	465.2394	448.9255	481.5534	452	33032	372	842	426	488	62	470	4750.47	68.92366	8.179733	3.05828	0.284805	13.86726	0.562511
Suspended Solids (mg/l)	71	74.53521	59.64651	89.42391	58	5292	2	432	40	98	58	430	3956.681	62.90215	7.465112	2.963554	0.284805	14.1498	0.562511
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	67	630.7463	21.08296	1240.41	80	42260	5	19000	20	350	330	18995	6247241	2499.448	305.3562	6.543106	0.292836	46.22559	0.577996
E. coli (CFU/100ml)	0																		
TOC (mg/l)	71	276.1549	267.303	285.0068	280	19607	172	374	252	298	45	202	1398.59	37.39773	4.438294	-0.11075	0.284805	0.588888	0.562511
Hardness (mg/l)	0																		
Chloride (mg/l)	59	10.50508	10.03188	10.97829	10.2	619.8	7.18	17.2	9.26	11.77	2.51	10.02	3.297219	1.815824	0.2364	1.0621	0.311176	1.890548	0.613257
Dissolved Oxygen (mg/l)	60	8.142333	8.058985	8.225681	8.19	488.54	7.09	8.69	7.995	8.365	0.37	1.6	0.1041	0.322645	0.041653	-0.89004	0.308694	1.309372	0.608492
pH	16	4.575	3.397145	5.752855	4.9	73.2	2	9.6	2	6	4	7.6	4.886	2.21043	0.552607	0.478363	0.564308	0.102082	1.090774
Copper (ug/l)	16	1921.25	835.4666	3007.033	1600	15370	370	4200	1000	2800	1800	3830	1686755	1298.751	459.178	0.760855	0.752101	-0.27388	1.48088
Iron (ug/l)	8	13.23125	10.48647	15.97603	10	2117	6.9	22	10	18	8	15.1	26.53296	5.151015	1.287754	0.732865	0.564308	-1.13926	1.090774
Zinc (ug/l)	16																		

Station WB-303

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	77	196.5974	190.0039	203.1909	202	15138	102	265	178	214	163	36	843.9016	29.04998	3.310553	-0.31276	0.273908	0.877152	0.54146
Ammonia (mg/l as N)	76	0.097368	0.077369	0.117367	0.05	7.4	0.05	0.5	0.05	0.1	0.45	0.05	0.00766	0.087519	0.010039	2.39583	0.275637	6.631005	0.54804
BOD (mg/l)	37	2.981081	2.38388	3.578283	2.3	110.3	0.5	7.5	1.7	4.6	7	2.9	3.208243	1.791157	0.294464	0.791088	0.387589	-0.11096	0.758719
COD (mg/l)	76	21.06842	19.57335	22.56349	20.9	1601.2	7	39	17	25	32	8	42.80699	6.542705	0.7505	0.331361	0.275637	0.309429	0.548804
Cyanide (mg/l)	76	0.005066	0.004998	0.005134	0.005	0.385	0.005	0.007	0.005	0.005	0.002	0	8.9E-08	0.000298	3.4E-05	4.987405	0.275637	26.60314	0.544804
Nitrate (mg/l as N)	76	3.524342	3.062996	3.985689	3.3	267.85	0.05	8.8	1.75	4.65	8.75	2.9	4.0761	2.018935	0.231588	0.364086	0.275637	-0.40798	0.544804
Total Phosphorus (mg/l as P)	76	0.184474	0.164225	0.204722	0.165	14.02	0.03	0.47	0.13	0.22	0.44	0.09	0.007852	0.08861	0.010164	1.031461	0.275637	1.137022	0.544804
Total Solids (mg/l)	77	490.5714	381.026	600.1168	434	37774	341	4654	412	465	4313	53	232939.4	482.638	55.0017	8.667736	0.273908	75.72797	0.54146
Suspended Solids (mg/l)	77	47.51948	38.73038	56.30858	39	3659	2	203	22	58	201	36	1499.49	38.72325	4.412923	1.691236	0.273908	3.300198	0.54146
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	75	1.17	1.079913	1.260087	1.1	87.75	0.6	2.9	0.9	1.4	2.3	0.5	0.153311	0.391549	0.045212	1.563186	0.2774	4.506249	0.548211
E. coli (CFU/100ml)	75	989.9333	182.0255	1797.841	200	74245	5	26000	70	460	25995	410	1.2E+07	3511.435	405.4656	5.882721	0.2774	37.55541	0.548211
TOC (mg/l)	0																		
Hardness (mg/l)	77	273.987	264.9431	283.0309	276	21097	128	366	250	299	238	49	1587.697	39.84592	4.540864	-0.44506	0.273908	1.562839	0.54146
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	62	10.30935	9.791782	10.82693	9.9	639.18	6.97	17.7	9	11.38	10.73	2.38	4.153724	2.038069	0.258835	1.056635	0.303902	1.808111	0.599288
pH	63	8.086349	8.001912	8.170786	8.11	509.44	7.1	8.73	7.96	8.31	1.63	0.35	0.112407	0.335272	0.04224	-0.82914	0.301589	0.592823	0.594841
Copper (ug/l)	16	4.575	3.397145	5.752855	4.9	73.2	2	9.6	2	6	7.6	4	4.886	2.21043	0.552607	0.478363	0.564308	0.102082	1.090774
Iron (ug/l)	8	1921.25	835.4666	3007.033	1600	15370	370	4200	1000	2800	3830	1800	1686755	1298.751	459.178	0.760855	0.752101	-0.27388	1.48068
Zinc (ug/l)	16	13.23125	10.48647	15.97603	10	211.7	6.9	22	10	18	15.1	8	26.53296	5.151015	1.287754	0.732865	0.564308	-1.13926	1.090774

Station WB-256

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	76	196.2895	189.1489	203.4301	194.5	14918	120	262	173	219	142	46	976.4751	31.2486	3.58446	-0.05856	0.275637	-0.66442	0.544804
Ammonia (mg/l as N)	76	0.096053	0.074555	0.117551	0.05	7.3	0.05	0.6	0.05	0.1	0.55	0.05	0.008851	0.094079	0.010792	3.0525	0.275637	11.51253	0.544804
BOD (mg/l)	36	3.513889	2.936215	4.091563	3.25	126.5	1.1	6.8	2	4.75	5.7	2.75	2.914944	1.707321	0.284553	0.466272	0.392544	-0.9092	0.768076
COD (mg/l)	76	23.26184	21.41706	25.10662	22.55	1767.9	7	58	17	28.2	51	11.2	65.17492	8.073099	0.926048	1.123126	0.275637	3.255074	0.544804
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	76	3.901316	3.341095	4.461536	3.9	256.5	0.05	9.7	1.8	5.55	9.65	3.75	6.010465	2.451625	0.281221	0.352188	0.275637	-0.56862	0.544804
Total Phosphorus (mg/l as P)	76	0.218592	0.196952	0.240232	0.2	16.613	0.05	0.6	0.16	0.255	0.55	0.095	0.008968	0.094699	0.010863	1.701045	0.275637	5.11584	0.544804
Total Solids (mg/l)	76	459.0263	436.9717	481.0809	447.5	34886	135	1034	423	482	899	59	9315.146	96.515	11.07103	2.698724	0.275637	18.39802	0.544804
Suspended Solids (mg/l)	76	77.15789	55.29391	99.02188	56	5864	2	616	32	82.5	614	50.5	9154.801	95.68073	10.97533	4.101512	0.275637	19.72885	0.544804
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	73	393.1507	190.5365	595.7649	120	28700	5	5600	20	420	5595	400	754129.5	868.4063	101.6393	4.63718	0.281029	23.68356	0.555223
E. coli (CFU/100ml)	0																		
TOC (mg/l)	76	277.0658	267.3645	286.7671	281.5	21057	148	370	254.5	300	222	45.5	1802.409	42.45479	4.869898	-0.33183	0.275637	0.684588	0.544804
Hardness (mg/l)	0																		
Chloride (mg/l)	61	10.72252	10.13901	11.30624	10.21	654.08	7.71	19.73	9.3	11.41	12.02	2.11	5.19266	2.278741	0.291763	1.707504	0.30627	4.287613	0.603837
Dissolved Oxygen (mg/l)	63	8.085238	7.948807	8.221669	8.18	509.37	5.02	8.71	7.9	8.4	3.69	0.5	0.293464	0.541723	0.068251	-3.10887	0.301589	15.73532	0.594841
pH	0																		
Copper (ug/l)	0																		
Iron (ug/l)	0																		
Zinc (ug/l)	0																		

Station WB-316

	Valid N	Mean	Confid -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	77	194.8571	187.9884	201.7258	194	15004	123	265	174	218	142	44	915.8083	30.26232	3.448712	0.041279	0.273908	-0.44509	0.54146
Ammonia (mg/l as N)	77	0.101299	0.082984	0.119614	0.05	7.8	0.05	0.4	0.05	0.1	0.35	0.05	0.006511	0.080694	0.009196	1.653702	0.273908	2.166655	0.54146
BOD (mg/l)	35	2.945714	2.345025	3.546404	2.4	103.1	0.5	7.9	1.8	3.7	7.4	1.9	3.057849	1.748671	0.295579	1.270696	0.397694	1.25689	0.777794
COD (mg/l)	77	22.25195	20.50881	23.99508	22	1713.4	8	50	17	25.3	42	8.3	58.98174	7.679957	0.875212	1.001179	0.273908	1.76011	0.54146
Cyanide (mg/l)	77	0.005286	0.005023	0.005548	0.005	0.407	0.005	0.012	0.005	0.005	0.007	0	1.3E-06	0.001157	0.000132	4.65058	0.273908	22.44755	0.54146
Nitrate (mg/l as N)	77	3.944156	3.475495	4.412816	3.8	303.7	0.2	9.4	2.2	5.4	9.2	3.2	4.263551	2.064837	0.23531	0.51174	0.273908	-0.28618	0.54146
Total Phosphorus (mg/l as P)	77	0.167922	0.148199	0.187645	0.16	12.93	0.04	0.45	0.1	0.21	0.41	0.11	0.007551	0.086896	0.009903	0.972259	0.273908	1.039868	0.54146
Total Solids (mg/l)	77	432.3636	416.7349	447.9924	432	33292	84	681	404	460	597	56	4741.366	68.85758	7.847049	-0.94413	0.273908	9.557881	0.54146
Suspended Solids (mg/l)	77	52.54545	42.36264	62.72826	40	4046	2	244	25	61	242	36	2012.751	44.8637	5.112693	1.961626	0.273908	4.730148	0.54146
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	77	1.143896	1.051523	1.236269	1.1	88.08	0.5	2.5	0.9	1.3	2	0.4	0.165632	0.406979	0.04638	1.191123	0.273908	2.084346	0.54146
E. coli (CFU/100ml)	76	1147.895	373.8465	1921.943	170	87240	5	23000	60	645	22995	585	1.1E+07	3387.375	388.5585	4.974474	0.275637	27.40255	0.544804
TOC (mg/l)	0																		
Hardness (mg/l)	77	273.6234	264.0911	283.1556	274	21069	170	370	244	302	200	58	1763.79	41.99751	4.78606	0.078585	0.273908	-0.40039	0.54146
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.25111	9.815797	10.68643	9.9	645.82	6.91	14.26	9.1	11.53	7.35	2.43	2.987675	1.728489	0.217769	0.423583	0.301589	-0.38593	0.594841
pH	64	8.064844	7.985686	8.144002	8.105	516.15	7.13	8.69	7.92	8.235	1.55	0.315	0.100422	0.316895	0.039612	-0.75724	0.299327	1.082939	0.590491
Copper (ug/l)	77	4.383117	3.789503	4.976731	4	337.5	2	14	2	6	12	4	6.840106	2.61536	0.298048	1.251447	0.273908	1.951355	0.54146
Iron (ug/l)	77	1892.078	1441.407	2342.749	1000	145690	110	9200	550	2700	9090	2150	3942519	1985.578	226.2776	1.72066	0.273908	2.742755	0.54146
Zinc (ug/l)	77	12.3039	10.4626	14.14519	10	947.4	2.25	40	6.2	19	37.75	12.8	65.81137	8.11242	0.924496	1.571034	0.273908	2.685087	0.54146